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REPORT  
OF  
State Electrician  
and Engineer  
TO THE  
GENERAL ASSEMBLY  
of the State of South Carolina  
AT THE REGULAR SESSION  
BEGINNING JANUARY, 1932



PRINTED UNDER THE DIRECTION OF THE  
JOINT COMMITTEE ON PRINTING  
GENERAL ASSEMBLY OF SOUTH CAROLINA

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STATE DOCUMENTS

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**LETTER OF TRANSMITTAL**

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January 1, 1932.

**To the General Assembly of South Carolina:**

Gentlemen: As required by law, I submit herewith report of this Department for the year ending October 31, 1931.

Contained herewith will be found information required by the Statutes to be submitted.

Respectfully submitted,

S. W. CANNON,  
State Electrician and Engineer.

## REPORT

### TOTAL KILOWATT HOURS CONSUMED BY VARIOUS STATE INSTITUTIONS DURING THE YEAR ENDING OCTOBER 31, 1931 AND AMOUNT PAID FOR SAME

	K. W. H.	Amount
Industrial School For Girls .....	16,738	\$334.76
Reformatory For Negro Boys .....	10,510	210.20
Confederate Infirmary .....	7,219	144.38
State & Palmetto Sanatoriums .....	170,279	3,405.58
State Hospital .....	930,994	18,619.88
Governor's Mansion .....	7,329	146.58
State Capital Building .....	196,268	3,925.36
State Office Building .....	94,410	1,888.20
University of South Carolina .....	223,304	4,466.08
State Armory .....	921	18.42
State Penitentiary .....	241,019	4,820.39
State Highway Department .....	27,986	559.72
<b>TOTALS</b> .....	<b>1,926,977</b>	<b>\$38,539.55</b>
Current Sold State Employees .....		1,899.96
Collections From Broad River Power Company .....		925.10
<b>Total Sale of Electric Current</b> .....		<b>\$41,364.61</b>

The above statement shows that the various State Institutions located in or near Columbia, consumed 1,926,977 Kilowatt Hours during the year ending October 31, 1931, which at the rate paid for same before contract was made between the State and the Broad River Power Company, would amount to \$38,539.55.

Total collections from Broad River Power Company, year ending October 31, 1931, under contract between the State and the Broad River Power Company, amounted to \$925.10. Add to this \$1,899.96, collections from State Employees using current from State lines, which makes the total saving to the State for the current year ending October 31, 1931, \$41,364.61.



FINANCIAL STATEMENT YEAR ENDING  
OCTOBER 31, 1931

**Balances:**

Balance in Closed Bank .....	\$190.77	
Accounts Receivable .....	4,666.02	
Accounts Receivable 1930 (Error) ....	.90	\$4,857.69
	<hr/>	

**Current Sales:**

State Institutions .....	\$38,539.55	
State Employees .....	1,899.96	
Collections From Broad River Power Company .....	925.10	\$41,364.61
	<hr/>	<hr/>
Total to be Accounted For .....		\$46,222.30

**Accounted for as Follows:**

Paid State Treasurer .....	\$43,138.86	
Balance in Closed Bank .....	190.77	\$43,329.63
	<hr/>	
Accounts Receivable .....		2,892.67
		<hr/>
Total Accounted For .....		\$46,222.30

TABLE NO. 1—STATEMENT SHOWING MONTHLY SETTLEMENTS WITH THE BROAD RIVER POWER COMPANY—YEAR 1931

Month of Settlement	Date of Load	Time of Highest Hour Load	Gross K. W. Load	Gross H. P. Load	Net H. P. Load	Unit H. P. Settlement	Net H. P. Due The State	Amount Due The State	Amount Paid The State	Net K. W. H. Due Broad River Power Company	Amt. Paid Broad River Power Company
November .....	20	9:40 to 10:40 A. M.....	539.000	718.666	682.733	600.000	.....	.....	.....	482	\$10.85
December .....	6	8:48 to 9:48 A. M.....	563.000	750.666	713.133	600.000	.....	.....	.....	524	11.79
January .....	14	9:50 to 10:50 A. M.....	570.000	760.000	722.000	600.000	.....	.....	.....	2,075	46.69
February .....	25	9:30 to 10:30 A. M.....	555.000	738.000	701.417	600.000	.....	.....	.....	412	9.27
March .....	27	9:00 to 10:00 A. M.....	518.000	690.666	656.133	600.000	.....	.....	.....	234	5.27
April .....	1	9:30 to 10:30 A. M.....	508.000	677.333	643.467	600.000	.....	.....	.....	82	1.85
May .....	5	2:28 to 3:28 P. M.....	472.000	629.333	597.867	600.000	2.133	\$7.11	\$7.11	.....	.....
June .....	30	9:50 to 10:50 A. M.....	429.500	572.666	544.033	600.000	55.967	186.55	186.55	.....	.....
July .....	1	10:00 to 11:00 A. M.....	420.000	560.000	532.000	600.000	68.000	226.67	226.67	.....	.....
August .....	11	9:50 to 10:50 A. M.....	439.000	585.333	556.067	600.000	43.933	146.44	146.44	.....	.....
September .....	23	10:06 to 11:06 A. M.....	430.250	573.666	544.933	600.000	55.017	183.39	183.39	.....	.....
October .....	31	8:58 to 9:58 A. M.....	432.250	576.333	547.517	600.000	52.483	174.94	174.94	.....	.....
TOTALS .....	.....	.....	.....	.....	.....	.....	.....	\$925.10	\$925.10	.....	\$86.72



TABLE NO. 2—SHOWING COLLECTIONS FROM THE SALE OF ELECTRIC CURRENT FOR THE YEAR ENDING OCTOBER 31, 1931  
TO STATE EMPLOYEES

Name of Employee	November	December	January	February	March	April	May	June	July	August	September	October	TOTALS
	1930	1930	1931	1931	1931	1931	1931	1931	1931	1931	1931	1931	
Dr. Byarley .....			\$13.04	\$8.16	\$7.04	\$17.88	\$16.40	\$13.20	\$3.60	\$6.56	\$6.84	\$9.00	\$101.72
Dr. Earnest Cooper .....	\$7.20	\$6.00	9.20	8.00	6.40	6.00	5.60	6.40	8.00	7.60	8.00	9.60	88.00
J. S. Jones .....	.72	.72	1.08	.84	.72	.60	.54	.60	.48	.42	.78	1.02	8.52
G. J. Cooper .....	3.54	2.88	5.16	4.02	2.88	2.70	1.80	1.92	1.32	.....	.....	3.12	29.34
T. S. Lomas .....	1.50	1.02	.....	.....	.....	.....	.....	.....	.54	.60	.72	1.02	5.40
Dr. Westrope .....	14.26	11.16	14.12	13.56	12.96	15.48	14.42	11.44	17.06	14.48	15.74	15.22	169.90
Dr. McElroy .....	3.18	2.76	2.70	1.92	2.28	1.98	1.56	1.20	1.32	1.02	2.10	3.24	25.26
Mr. McLean .....	2.04	1.44	.....	3.72	1.68	2.76	2.16	1.74	2.16	.....	3.54	2.58	23.82
W. C. Hale .....	2.16	1.98	2.82	2.04	1.80	2.94	1.86	1.38	1.50	.96	1.98	2.58	24.00
Mr. Cooper .....	4.32	3.60	4.50	3.54	2.94	3.24	2.76	2.28	2.52	2.76	2.88	4.26	39.60
W. M. Bushell .....	1.92	2.58	2.52	2.04	1.74	1.50	1.50	.72	.48	.54	.84	4.14	20.52
G. M. Day .....	3.00	3.42	3.72	2.52	3.24	2.10	2.64	.96	1.26	1.50	1.86	3.12	29.34
E. M. Dickert .....	3.78	5.16	4.74	4.44	3.48	3.00	2.94	3.06	3.96	4.20	3.84	3.84	46.80
R. Sisson .....	4.26	4.50	4.32	4.62	3.96	3.42	3.06	2.64	1.80	2.52	2.70	4.08	41.88
J. T. Rikard .....	3.12	3.96	3.30	2.76	2.46	2.04	1.86	1.26	.90	3.12	3.72	3.00	31.50
Mr. Winguard .....	1.68	1.56	1.98	1.74	1.74	1.44	1.08	.96	.....	1.50	.....	2.34	16.02
H. T. Patterson .....	3.84	3.54	4.38	.....	.....	8.16	3.30	1.20	.....	.....	.....	5.28	29.70
W. B. Guy .....	2.46	2.28	2.22	1.86	1.80	1.20	1.92	1.20	2.16	2.22	2.04	1.98	23.34
Dr. Horger .....	2.64	2.34	2.64	2.34	2.28	1.86	2.28	.....	.....	.....	5.52	2.04	23.94
Dr. Long .....	3.18	4.26	.....	1.92	1.80	2.16	.....	2.82	1.62	.66	1.62	1.68	21.72
Dr. Boone .....	7.02	3.00	2.34	1.98	3.00	2.64	2.88	1.62	1.56	2.34	2.22	2.70	33.30
Dr. Ham .....	3.42	3.00	3.36	2.28	2.64	2.82	3.12	1.86	2.16	2.70	2.34	4.20	33.90
Dr. Carrigan .....	4.44	3.90	2.64	3.00	3.30	3.48	4.56	4.26	5.64	5.22	5.22	4.26	49.92
Dr. Bullock .....	3.24	3.00	3.54	3.30	3.36	2.88	3.42	1.86	1.56	1.68	1.50	2.16	31.50
Dr. Macdonald .....	3.90	2.94	2.64	3.54	1.50	1.62	1.68	1.02	1.26	1.50	1.26	.36	23.22
J. O. Hammond .....	2.82	3.18	2.10	2.64	1.50	1.02	1.80	1.02	.78	1.08	1.38	2.10	21.42
Mr. King .....	1.50	1.38	1.44	1.08	.90	.96	1.20	1.14	.....	.....	1.02	1.32	11.94
Mr. McClure .....	4.32	3.90	3.84	3.42	3.18	2.40	2.64	1.14	.....	2.76	3.12	3.54	34.26
H. A. McElroy .....	4.98	4.20	5.40	4.14	5.46	5.46	4.44	3.66	4.26	3.66	4.68	5.04	55.38
Prof. H. C. Davis .....	4.50	3.30	4.44	3.66	4.68	4.20	4.80	4.32	3.84	4.80	4.02	5.40	51.96
Prof. Geo. McCutchen .....	5.04	6.18	5.22	4.38	4.56	4.32	4.08	4.38	.....	15.84	6.86	7.56	68.42

Prof. F. W. Bradley .....	3.06	2.46	2.58	2.94	2.28	1.80	2.46	1.74	1.86	.....	2.70	1.80	25.68
Prof. J. B. Coleman .....	.....	.....	3.18	1.68	1.32	.84	1.14	.....	.....	.....	.....	.....	8.16
Prof. A. C. Carson .....	3.00	2.82	3.06	2.76	2.22	1.86	2.28	2.16	1.92	1.86	.....	4.20	28.14
Dr. W. B. Burney .....	7.50	6.06	8.16	8.94	8.40	6.96	1.32	.....	.....	.....	.....	.....	47.34
Prof. J. Rion McKissick .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.88	9.54	10.92
Prof. G. A. Wauchope .....	3.42	3.12	3.96	3.12	2.52	2.22	2.28	.....	.....	.....	3.84	.....	24.48
M. L. Smith .....	3.24	2.94	3.72	3.24	2.64	2.22	2.82	6.42	6.30	6.42	5.70	6.18	51.84
Mr. Bankhead .....	.....	.....	.....	15.12	.....	4.32	1.74	1.80	1.92	1.92	2.82	3.12	32.76
Prof. Walter E. Rowe .....	8.40	6.54	7.20	8.28	7.50	6.84	8.22	7.86	7.68	8.52	7.86	7.50	92.40
Prof. Geo. E. Olson .....	7.08	6.18	8.16	9.48	6.00	5.16	6.42	6.72	6.42	.....	4.74	6.06	72.42
Prof. Patterson Wardlaw .....	4.56	5.10	4.74	3.60	3.00	2.40	5.46	.....	.....	8.70	1.74	2.16	41.46
Prof. G. F. Lipscomb .....	.....	4.20	2.58	.....	.....	7.44	.....	2.58	1.62	.....	1.50	.....	19.92
Prof. L. T. Baker .....	3.00	2.58	2.88	2.58	2.16	2.46	3.36	1.74	.....	1.50	1.32	2.88	26.46
Prof. Josiah Morse .....	3.90	2.94	3.30	2.76	2.34	1.74	1.86	1.32	.66	1.68	2.46	3.72	28.68
Prof. Yates Snowden .....	6.54	5.16	7.68	4.80	6.42	5.28	6.00	4.86	.....	.....	2.28	7.44	56.46
Prof. Stephen Tabor .....	3.96	3.36	3.84	3.72	3.66	3.00	3.42	2.34	.....	.....	1.86	2.94	32.10
Prof. J. A. Stoddard .....	7.68	3.78	4.68	4.44	4.32	3.36	3.78	3.24	3.06	2.46	.....	6.54	47.34
Dr. W. S. Currell .....	4.56	4.50	4.62	4.08	2.58	4.14	3.42	2.40	.....	.....	3.60	3.96	37.86
TOTALS .....	\$183.88	\$164.88	\$193.74	\$185.00	\$152.64	\$174.30	\$158.28	\$126.44	\$103.18	\$125.30	\$142.50	\$189.82	\$1,899.96



TABLE NO. 2—SHOWING COLLECTIONS FROM THE SALE OF ELECTRIC CURRENT FOR THE YEAR ENDING OCTOBER 31, 1931—Con.  
TO STATE INSTITUTIONS

Name of Institution	November	December	January	February	March	April	May	June	July	August	September	October	TOTALS
	1930	1930	1931	1931	1931	1931	1931	1931	1931	1931	1931	1931	
Industrial School for Girls ...	\$18.70	\$44.36	\$33.52	\$25.42	\$28.96	\$27.54	\$27.38	\$21.10	\$20.60	\$22.26	\$23.94	\$40.98	\$334.76
Reformatory for Negro Boys ..	16.88	15.12	22.00	13.40	13.30	9.96	18.54	18.98	21.36	20.96	22.04	17.66	210.20
Confederate Infirmary .....	15.32	15.66	21.56	16.66	11.50	12.06	10.44	6.90	6.48	7.30	8.02	12.48	144.38
State and Palmetto Sanatoriums .....	350.50	312.56	409.38	295.98	306.50	269.36	225.06	229.18	247.38	263.56	236.72	259.40	3,405.58
State Hospital .....	1,723.96	1,495.92	1,730.72	1,560.44	1,433.56	1,411.10	1,520.00	1,340.88	1,668.08	1,663.48	1,634.62	1,437.12	18,619.88
Governor's Mansion .....	15.22	16.96	21.52	8.60	11.00	10.00	14.00	7.60	8.60	12.38	8.92	11.78	146.58
State Capitol .....	327.58	217.40	414.92	410.48	374.22	372.42	430.98	310.22	254.26	259.34	256.54	297.00	3,925.36
State Office Building .....	188.00	147.60	182.40	167.20	158.20	160.20	160.20	137.60	132.80	133.00	137.80	183.20	1,888.20
University of S. C. ....	619.40	364.02	567.46	516.54	496.40	313.22	460.42	247.42	152.42	53.08	277.66	398.04	4,466.08
State Army .....	1.60	1.10	1.14	1.20	.....	2.70	.....	3.04	.....	1.68	1.48	4.48	18.42
State Penitentiary .....	441.42	386.04	467.16	454.39	424.30	357.98	454.20	330.22	382.42	368.64	342.34	411.28	4,820.39
State Highway Dept. ....	50.60	41.20	45.64	69.20	42.12	47.26	41.36	36.24	29.14	51.94	46.58	58.44	559.72
TOTALS .....	\$3,769.18	\$3,057.94	\$3,917.42	\$3,539.51	\$3,800.06	\$2,993.80	\$3,362.58	\$2,689.38	\$2,923.54	\$2,857.62	\$2,996.66	\$3,131.86	\$38,539.55

TABLE NO. 3—STATEMENT OF EXPENDITURES FOR FISCAL YEAR ENDING OCTOBER 31, 1931 SHOWING AMOUNT OF WATER CONSUMED BY VARIOUS INSTITUTIONS AND DEPARTMENTS

Institution—Department	November	December	January	February	March	April	May	June	July	August	September	October	TOTALS
	1930	1930	1931	1931	1931	1931	1931	1931	1931	1931	1931	1931	
Woodrow Wilson Home .....	\$1.11	\$0.06	.....	\$1.11	\$1.17	\$1.11	\$2.22	\$1.17	\$0.06	\$1.11	.....	\$0.06	\$1.18
State Capitol .....	10.43	11.95	\$9.58	7.41	6.84	9.04	8.58	22.16	28.05	30.25	\$72.37	27.43	244.09
State Office Building .....	24.52	24.07	14.31	18.85	13.58	17.56	21.43	29.62	40.73	32.65	46.06	33.88	317.26
University of S. C. ....	155.34	142.78	88.08	143.39	131.56	135.13	115.29	117.25	105.92	73.98	124.71	133.86	1,467.29
State Hospital .....	655.14	574.18	431.74	518.93	463.94	559.21	520.39	598.87	682.85	669.55	884.03	557.80	7,116.63
Confederate Infirmary .....	11.84	9.93	7.13	9.31	7.74	8.70	8.58	8.86	9.31	7.69	11.72	7.29	108.10
Governor's Mansion .....	3.93	.67	.79	4.04	8.58	15.09	26.87	41.74	37.76	17.00	39.72	20.70	216.89
Penitentiary .....	236.85	156.80	209.79	173.57	189.45	190.74	183.45	193.71	199.15	205.89	247.12	163.59	2,350.11
State Armory .....	.28	.22	.28	.39	.34	.11	.28	.34	.22	.06	.39	.34	3.25
TOTALS .....	\$1,098.44	\$920.66	\$761.70	\$876.00	\$822.20	\$935.69	\$885.09	\$1,012.72	\$1,104.05	\$1,037.18	\$1,426.12	\$944.95	\$11,824.80